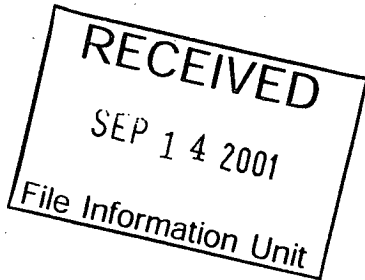


REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)



In re Application of <u>Breed</u>	
Application Number <u>08/239 978</u>	Filed <u>May 9, 1994</u>
Group Art Unit	Examiner

Paper No. 18

Assistant Commissioner for Patents
Washington, DC 20231

I hereby request access under 37 CFR 1.14(a)(3)(iv) to the application file record of the above-identified ABANDONED application, which is: (CHECK ONE)

- ___ (A) referred to in United States Patent Number 6141432 column _____
- ___ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. _____ filed _____ on page _____ of paper number _____
- ___ (C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No. _____ filed _____ or
- ___ (D) an application in which the applicant has filed an authorization to lay open the complete application to the public.

Please direct any correspondence concerning this request to the following address:

Viola Rindler
Signature
Viola Rindler
Typed or printed name

9-14-01
Date

FOR PTO USE ONLY	
Approved by: <u>[Signature]</u>	(initials)
Unit: <u>F14</u>	



US006141432A

United States Patent [19]

Breed et al.

[11] **Patent Number:** **6,141,432**[45] **Date of Patent:** ***Oct. 31, 2000**[54] **OPTICAL IDENTIFICATION**[75] Inventors: **David S. Breed**, Boonton Township, N.J.; **Wilbur E. DuVall**, Kimberling City, Mo.; **Wendell C. Johnson**, Torrance, Calif.[73] Assignee: **Automotive Technologies International, Inc.**, Denville, N.J.

[*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: **09/200,614**[22] Filed: **Nov. 30, 1998****Related U.S. Application Data**

[63] Continuation of application No. 08/474,786, Jun. 7, 1995, Pat. No. 5,845,900, which is a continuation-in-part of application No. 07/878,571, May 5, 1992, abandoned, which is a continuation-in-part of application No. 08/040,978, Mar. 31, 1993, which is a continuation-in-part of application No. 08/247,760, May 23, 1994, which is a continuation-in-part of application No. 08/239,978, May 9, 1994.

[51] Int. Cl.⁷ **G06K 9/00**[52] U.S. Cl. **382/100; 382/103; 348/143**[58] Field of Search **382/100, 104, 382/103, 291; 280/735; 348/143, 148**[56] **References Cited****U.S. PATENT DOCUMENTS**

4,496,222	1/1985	Shah	359/300
4,625,329	11/1986	Ishikawa et al.	382/104
4,648,052	3/1987	Friedman et al.	364/550
4,720,189	1/1988	Heynen et al.	351/210
4,768,088	8/1988	Ando	358/93
4,836,670	6/1989	Hutchinson	351/210
4,881,270	11/1989	Knecht et al.	382/191
4,906,940	3/1990	Greene et al.	382/100
4,950,069	8/1990	Hutchinson	351/210
4,966,388	10/1990	Warner et al.	280/730
5,003,166	3/1991	Girod	250/201.4
5,008,946	4/1991	Ando	382/104
5,026,153	6/1991	Suzuki et al.	356/1
5,060,278	10/1991	Fukumizu	382/157

5,064,274	11/1991	Allen	359/604
5,071,160	12/1991	White et al.	280/735
5,074,583	12/1991	Fujita et al.	280/730.1
5,118,134	6/1992	Mattes et al.	280/735
5,162,861	11/1992	Tamburino et al.	356/5.05
5,181,254	1/1993	Schweizer et al.	382/100
5,185,667	2/1993	Zimmermann	348/143

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

342337	2/1991	Japan
94/22693	10/1994	WIPO

OTHER PUBLICATIONS

Derwent Abstract of German Patent Publication No. DE 42 11 556, Oct. 7, 1993.

Derwent Abstract of Japanese Patent Application No. 02-051332, Nov. 13, 1991.

Primary Examiner—Yon J. Couso*Attorney, Agent, or Firm*—Brian Roffe[57] **ABSTRACT**

A vehicle interior monitoring system to identify, locate and monitor occupants, including their parts, and other objects in the passenger compartment and objects outside of a motor vehicle, such as an automobile or truck, by illuminating the contents of the vehicle and objects outside of the vehicle with electromagnetic, and specifically infrared, radiation and using one or more lenses to focus images of the contents onto one or more arrays of charge coupled devices (CCD arrays). Outputs from the CCD arrays, are analyzed by appropriate computational means employing trained pattern recognition technologies, to classify, identify or locate the contents or external objects. In general, the information obtained by the identification and monitoring system is used to affect the operation of some other system in the vehicle. When system is installed in the passenger compartment of an automotive vehicle equipped with an airbag, the system determines the position of the vehicle occupant relative to the airbag and disables deployment of the airbag if the occupant is positioned so that he/she is likely to be injured by the deployment of the airbag.

29 Claims, 12 Drawing Sheets